

Amendments to the Claims

The listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of claims

Please CANCEL claims 18-22. without prejudice or disclaimer.

Claim 1: (CURRENTLY AMENDED) A system for managing network elements of a network, said system comprising:

- at least one network element;
- a centralized management information base;
- a management processor communicatively coupled to said management information base;
- at least one gateway communicatively coupled to said management processor, said at least one gateway operable to manage said at least one network element; and
- at least one object stored in said management information base defining management behavior for managing said at least one network element, said at least one object including a relationship attribute identifying said at least one gateway, wherein said management processor accesses said at least one object stored in said management information base and implements the management behavior defined by said at least one object in accordance with the relationship attribute included in said at least one object by communicating said at least one object to said at least one gateway identified by the relationship attribute of said at least one object, without said at least one gateway actively searching for said at least one object.

Claim 2: (ORIGINAL) The system of claim 1 further comprising:

- software code executable by said management processor for generating a user interface with which a user can interact to define management behavior.

Claim 3: (ORIGINAL) The system of claim 2 wherein user-defined management behavior can be activated at run-time of said management processor.

Claim 4: (ORIGINAL) The system of claim 1 wherein said management behavior includes behavior associated with managing trap messages received from said at least one network element.

Claim 5: (ORIGINAL) The system of claim 1 wherein said management behavior includes behavior associated with managing polling activities.

Claim 6: (PREVIOUSLY PRESENTED) The system of claim 1 wherein said management behavior includes one or more behaviors selected from the group of:
generating an alert, logging information to a database, logging information to another system, initiating a polling activity, filtering information, performing suppression of information, performing correlation of information, performing thresholding, triggering an e-mail message, triggering a page, and any combination thereof.

Claim 7: (PREVIOUSLY PRESENTED) The system of claim 1 further comprising:
a plurality of network elements; and
a plurality of said gateways distributed on the network, each gateway operable to manage one or more of said plurality of network elements.

Claim 8: (ORIGINAL) The system of claim 7 further comprising:
a plurality of objects stored in said management information base each defining different management behavior.

Claim 9: (ORIGINAL) The system of claim 8 wherein each of said plurality of objects includes a relationship attribute identifying at least one of said plurality of gateways that is executable to perform management behavior defined by such object.

Claim 10: (ORIGINAL) The system of claim 8 wherein said management processor is operable to autonomously determine appropriate one or more of said plurality of gateways to which each of said objects relates, and wherein said management processor is operable to autonomously communicate one or more of said plurality of objects to the determined appropriate one or more of said plurality of gateways.

Claim 11: (ORIGINAL.) The system of claim 10 wherein the determined appropriate one or more of said plurality of gateways stores said one or more of said plurality of objects local thereto.

Claim 12: (ORIGINAL) The system of claim 10 wherein the said management processor is operable to autonomously communicate one or more of said plurality of objects to the determined appropriate one or more of said plurality of gateways responsive to a user defining a new management behavior represented by said one or more of said plurality of objects.

Claim 13: (ORIGINAL) The system of claim 12 wherein said management processor executes to present a user interface to a user to enable said user to define management behavior thereby creating new objects to be stored in said management information base or modifying existing ones of said objects stored in said management information base.

Claim 14: (CURRENTLY AMENDED) A method comprising:

- implementing at least one gateway operable to manage one or more network elements of a network, said at least one gateway being communicatively coupled to a management processor;

- defining a management behavior;

- representing said management behavior as a behavior object;

- storing said behavior object in a centralized information base communicatively coupled to said management processor;

- said management processor determining an appropriate one or more of said at least one gateway that is to perform said defined management behavior; and

- said management processor autonomously communicating said behavior object from the centralized information base to the one or more determined gateways without the one or more determined gateways actively searching for said behavior object.

Claim 15: (CANCELED)

Claim 16: (CANCELED)

Claim 17: (PREVIOUSLY PRESENTED) The method of claim 14 wherein said determining by the management processor further comprises:

said management processor identifying said appropriate one or more of said at least one gateway that is to perform said defined management behavior based at least in part on a relationship attribute associated with said behavior object that specifies the appropriate one or more gateways.

Claim 18: (CANCELED)

Claim 19: (CANCELED)

Claim 20: (CANCELED)

Claim 21: (CANCELED)

Claim 22: (CANCELED)

Claim 23: (PREVIOUSLY PRESENTED) The method of claim 17 wherein said determining by the management processor further comprises:

said management processor receiving input from a user identifying said appropriate one or more of said at least one gateway that is to perform said defined management behavior; and

said management processor storing the said appropriate one or more of said at least one gateway in a relationship attribute associated with said behavior object.

Claim 24: (PREVIOUSLY PRESENTED) The method of claim 14 further comprising:
presenting a user interface to enable a user to perform said defining.

Claim 25: (ORIGINAL) The method of claim 14 wherein said management behavior includes behavior associated with managing trap messages received from said one or more network elements.

Claim 26: (ORIGINAL) The method of claim 14 wherein said management behavior includes behavior associated with managing polling activities.

Claim 27: (PREVIOUSLY PRESENTED) The method of claim 14 wherein said management behavior includes one or more behaviors selected from the group of:

generating an alert, logging information to a database, logging information to another system, initiating a polling activity, filtering information, performing suppression of Information, performing correlation of information, performing thresholding, triggering an e-mail message, triggering a page, and any combination thereof.

Claim 28: (PREVIOUSLY PRESENTED) The method of claim 14 further comprising:
activating said one or more determined gateways during run-time.

Claim 29: (CURRENTLY AMENDED) A system comprising:

plurality of distributed gateways each operable to manage one or more network elements, each of said distributed gateways comprising code executable in accordance with one or more behavior objects stored local thereto; and

a central management processor communicatively coupled to said distributed gateways and also communicatively coupled to an information base having user-defined behavior objects stored therein, wherein said central management processor executes a management process which autonomously determines one or more of said plurality of distributed gateways to which one or more of said user-defined behavior objects stored in said information base are to be communicated. and which causes said one or more of the user-defined behavior objects to be communicated and thereby stored locally in the determined one or more of said plurality of distributed gateways without the determined one or more of said plurality of distributed gateways actively searching for said one or more of the user-defined behavior objects, so that the code of said one or more of said plurality of distributed gateways executes in accordance with the communicated one or more of said user-defined behavior objects.

Claim 30: (CANCELED)

Claim 31: (PREVIOUSLY PRESENTED) The system of claim 29, wherein said one or more of said user-defined objects communicated to the determined one or more of said plurality of distributed gateways dictate proper management behavior for the determined one or more of said plurality of distributed gateways.

Claim 32: (ORIGINAL) The system of claim 29 wherein said central management processor executes a management process to communicate one or more of said user-defined behavior objects to one or more of said distributed gateways during run-time of said central management processor.

Claim 33: (ORIGINAL) The system of claim 32, wherein said one or more of said user-defined behavior objects communicated to said one or more of said distributed gateways dictate management behavior represented by said one or more of said user-defined behavior objects to be executed by said one or more of said distributed gateways.

Claim 34: (CURRENTLY AMENDED) A system comprising:

- a plurality of distributed gateways each operable to manage one or more network elements;

- a central information base storing user-defined behavior objects, each behavior object having a relationship attribute identifying a distributed gateway of the plurality of distributed gateways to execute the respective behavior object, and each behavior object defining management behavior for managing [[a]] the distributed gateway identified by the relationship attribute of the respective behavior object of the plurality of distributed gateways; and

- a central management processor which, in accordance with the relationship attribute of a respective behavior object, accessing communicates [[a]] the respective behavior object stored in the information base and causing the respective behavior object to be communicated to the distributed gateway identified by the relationship attribute of the respective behavior object, for which the respective behavior object defines management behavior without the distributed gateway actively searching for the respective behavior object, so that the communicated behavior object is stored locally in, and then executed by, the distributed gateway.

Claim 35: (CURRENTLY AMENDED) A system comprising:

- a plurality of distributed gateways each operable to manage one or more network elements;

- a central information base storing user-defined behavior objects, each behavior object having a relationship attribute identifying a distributed gateway of the plurality of

distributed gateways to execute the respective behavior object, and each behavior object defining management behavior for managing [[a]] the distributed gateway identified by the relationship attribute of the respective behavior object of the plurality of distributed gateways; and

means for, in accordance with the relationship attribute of a respective behavior object accessing communicating [[a]] the respective behavior object stored in the information base and for causing the respective behavior object to be communicated to the distributed gateway identified by the relationship of the respective behavior object for which the respective behavior object defines management behavior without the distributed gateway actively searching for the respective behavior object, so that the communicated behavior object is stored locally in, and then executed by, the distributed gateway.

Claim 36: (NEW) A system comprising:

a plurality of distributed gateways each operable to manage one or more network elements;

a central information base storing user-defined behavior objects, each behavior object defining management behavior for managing a distributed gateway of the plurality of distributed gateways; and

a central management processor accessing a respective behavior object stored in the information base and causing the respective behavior object to be communicated to the distributed gateway for which the respective behavior object defines management behavior without the distributed gateway actively searching for the respective behavior object, so that the communicated behavior object is stored locally in, and then executed by, the distributed gateway.